

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/16452

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H05K9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H05K9/00, B32B29/00, H01Q17/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	EP 1022805 A2 (TDK CORP.), 26 July, 2000 (26.07.00), Par. Nos. [0020], [0022], [0049]; Fig. 1 & US 6407693 B1 & TW 533761 A & JP 2000-216584 A	1, 2 3, 5-12, 14-18
Y	JP 2000-40894 A (Kureha Chemical Industry Co., Ltd.), 08 February, 2000 (08.02.00), Par. Nos. [0010] to [0012], [0022] (Family: none)	3, 5-12, 14-18
Y	JP 11-117185 A (Kabushiki Kaisha Oishi Corp.), 27 April, 1999 (27.04.99), Par. Nos. [0023], [0024], [0026], [0035] (Family: none)	3, 5-12, 14-18

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
16 March, 2004 (16.03.04)

Date of mailing of the international search report
30 March, 2004 (30.03.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/16452

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5637377 A (SUNCLIPSE, INC.), 10 June, 1997 (10.06.97), Column 5, lines 51 to 58; Fig. 3 (Family: none)	3, 5-7, 9-12, 14-18
Y	JP 10-248618 A (Oji Paper Co., Ltd.), 22 September, 1998 (22.09.98), Par. No. [0013] (Family: none)	6-12, 14-18
Y	JP 2002-146679 A (Toray Industries, Inc.), 22 May, 2002 (22.05.02), Par. No. [0027] (Family: none)	9-12, 14-18
Y	JP 11-87972 A (Tokin Corp.), 30 March, 1999 (30.03.99), Par. No. [0017]; Fig. 1 (Family: none)	10-12, 14-18
Y	JP 6-69676 A (TDK Corp.), 11 March, 1994 (11.03.94), Par. No. [0027]; Fig. 4 (Family: none)	14-18
Y	JP 8-67544 A (Takenaka Corp.), 12 March, 1996 (12.03.96), Par. No. [0051]; Fig. 4 (Family: none)	16, 18
Y	JP 4-79300 A (Akuzo Kashima Kabushiki Kaisha), 12 March, 1992 (12.03.92), Page 2, upper right column, line 10 to lower left column, line 4; Fig. 7 (Family: none)	17
X	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 34084/1983 (Laid-open No. 140825/1984) (Showa Ramineto Insatsu Kabushiki Kaisha), 20 September, 1984 (20.09.84), Page 2, line 13 to page 3, line 15; Figs. 1, 2 (Family: none)	1, 5
X	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 174193/1982 (Laid-open No. 78693/1984) (Showa Ramineto Insatsu Kabushiki Kaisha), 28 May, 1984 (28.05.84), Page 2, line 13 to page 4, line 19; Figs. 1 to 4 (Family: none)	1, 5

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/16452

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 150809/1986 (Laid-open No. 57797/1988) (Toppan Printing Co., Ltd.), 18 April, 1988 (18.04.88), Full text; Figs. 1 to 7 (Family: none)	1
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 67317/1986 (Laid-open No. 183637/1986) (Ishizaki Sngyo Kabushiki Kaisha), 15 November, 1986 (15.11.86), Full text; Figs. 1 to 3 (Family: none)	1
A	US 4684020 A (CONDUCTIVE CONTAINER, INC.), 04 August, 1987 (04.08.87), Full text; Figs. 1 to 7 & EP 216311 A1 & DE 3662379 D	1
A	US 5407714 A (HANS KOLB WELLPAPPE GMBH. & CO.), 18 April, 1995 (18.04.95), Full text; Figs. 1 to 12 & CA 2092061 A & MX 9301819 A	1
A	WO 99/29503 A1 (VERMILLION, Robert, J.), 17 June, 1999 (17.06.99), Full text; Figs. 1 to 5 & EP 1037744 A1 & AU 1348299 A	1
A	WO 02/87989 A1 (MUNKSJO FORPACKNINGAR AB.), 07 November, 2002 (07.11.02), Full text; Figs. 1 to 3 & EP 1383690 A1 & SE 0101528 A & SE 521111 A	1